

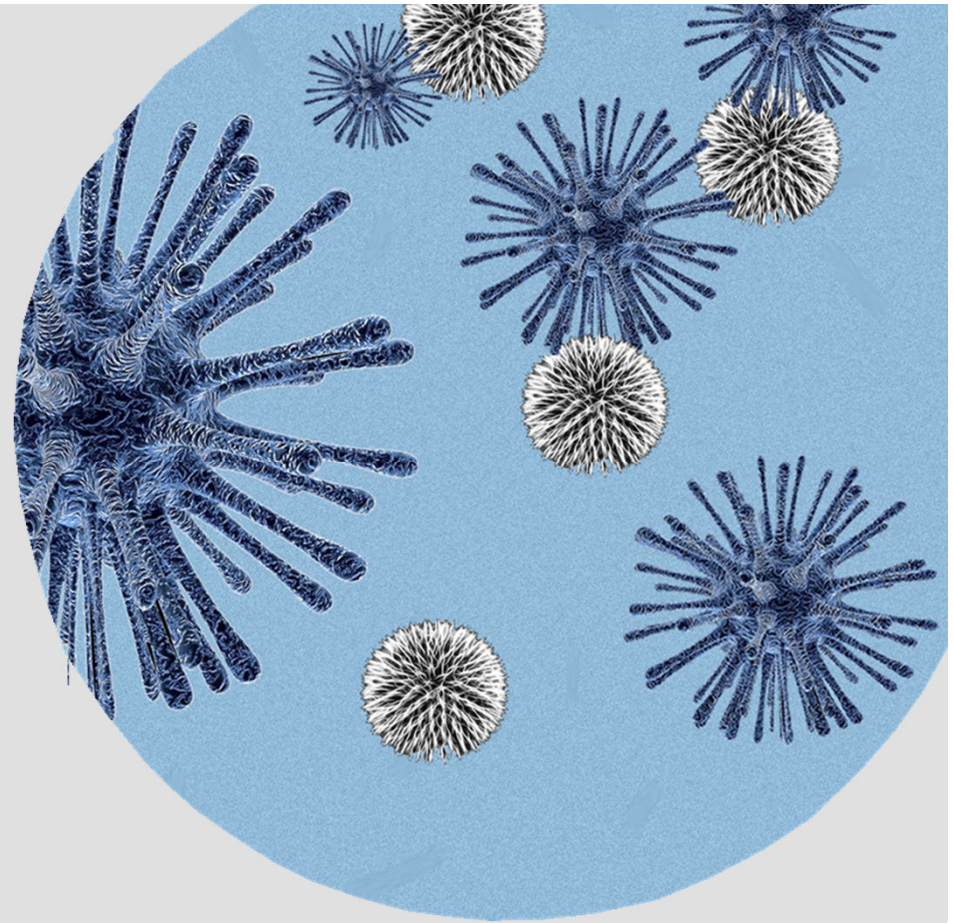
Anti-

SUPERBUGS

Pre-Commercial Procurement

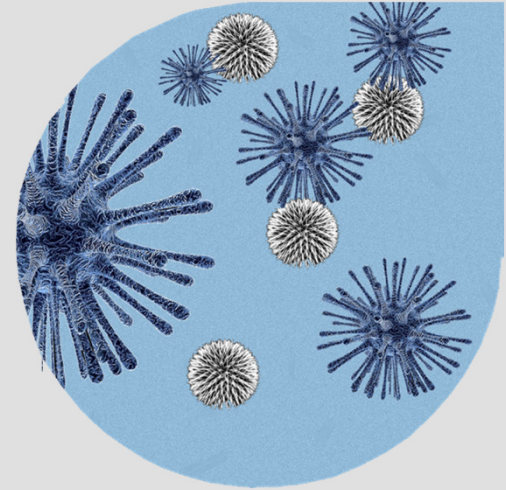


Health care-associated infections (HAI) in Catalonia



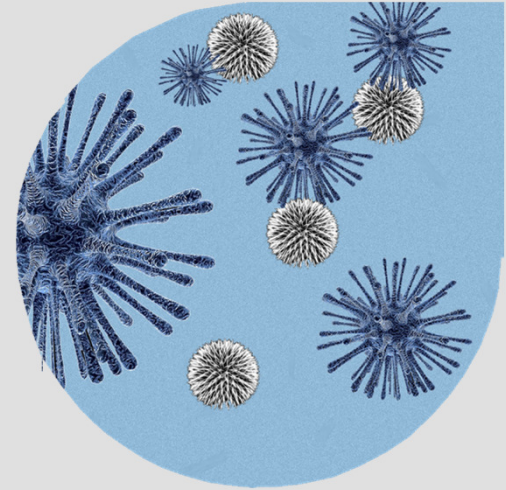
Co-funded by the Horizon 2020 Framework Programme of the European Union





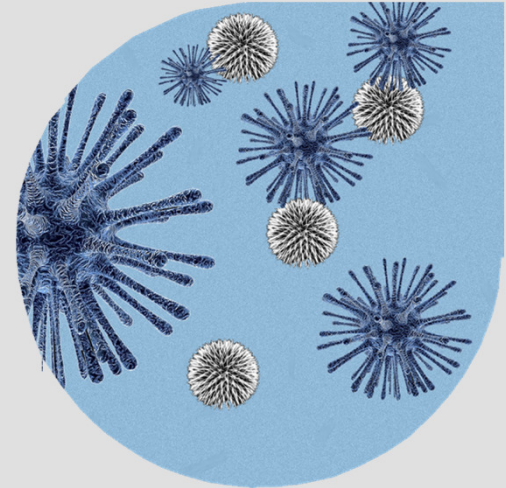
Healthcare Associated infections (HAI)

- **Healthcare Associated infections (HAI)** remain a major cause of patient morbidity and mortality, costing the European economy billions of euros each year.
- Surveillance of Healthcare Associated Infections in Catalonia (Spain): The **VINCat Program** is a programme of the Catalan Health Service that establishes a unified **surveillance system** for nosocomial infections at Catalan hospitals. Its mission is to contribute to the **reduction of the prevalence of these infections** through active and ongoing epidemiological surveillance.



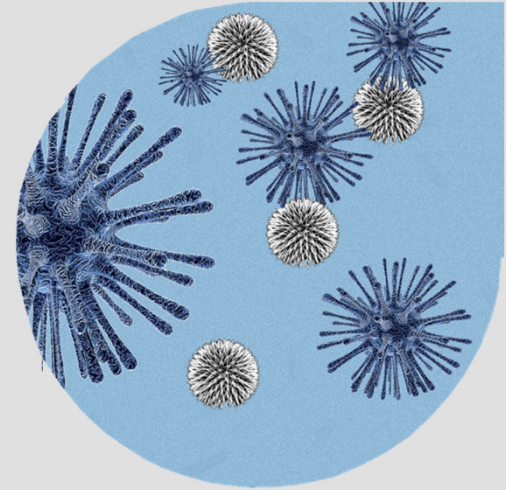
Healthcare Associated infections (HAI)

- It is estimated that **20% to 40%** of these nosocomial infections have been attributed to **cross infection via the hands of health care personnel**. Contamination of the hands of health care workers could in turn result from either **direct patient contact** or **indirectly from touching contaminated environmental surfaces**.



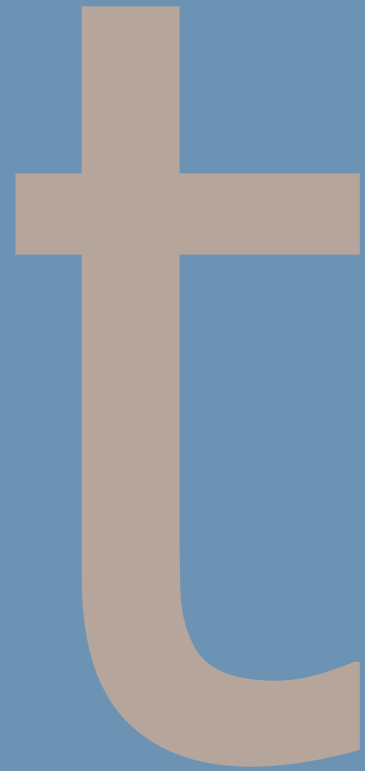
Healthcare Associated infections (HAI)

- Infections can be associated with **procedures** (like surgery) and the devices used in medical procedures, such as **catheters** or **ventilators**. Four categories of infections account for about three quarters of HAIs in the acute care hospital setting: **SSIs, CLABSIs, VAPs, and CAUTIs**.
- Infections caused by **bacteria** such as *Clostridium difficile* and **antibiotic-resistant bacteria** such as methicillin-resistant *Staphylococcus aureus* (MRSA) are also common in hospitals.

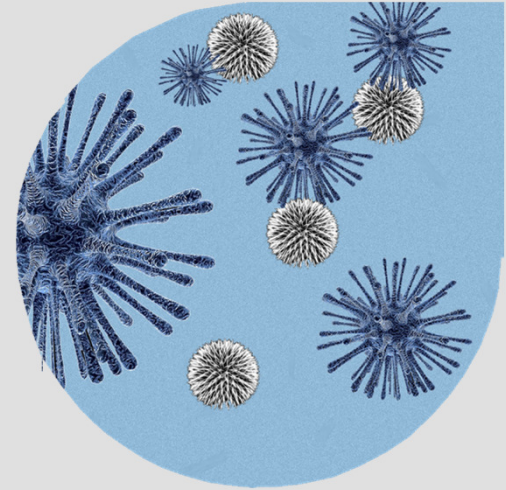


The **unmet needs** we have detected in Catalonia hospitals

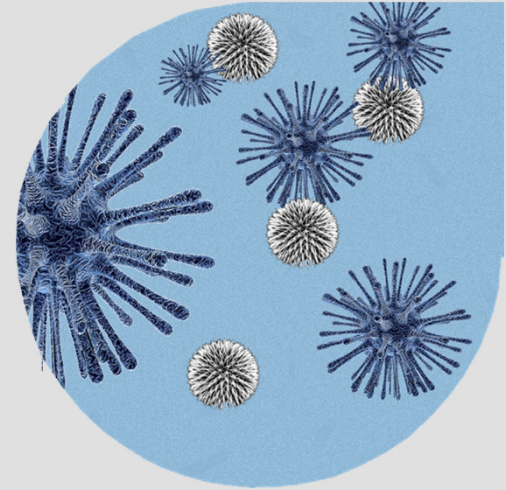
- Infections caused by **multidrug-resistant organisms (MDROs)** is a common problem in the majority hospitals and health care services in our community
- We need **technological continuing detection in environmental surfaces and human bodies**
- The immediate objective of detection, “at the foot of the bed”, is to improve, upgrade and strengthen the Infection control system, with emphasis on **prevention, reporting and prompt intervention.**



The hopes we have on
the PCP tool to solve it.



- New technology
 - Not expensive
 - No structural changes for the use
 - Quick detection
 - 99.9% sensibility and specificity
 - Communication with medical record history
- Detection de majority of the common multidrug-resistant organisms (MDROs):
 - (Vancomycin-Resistant Enterococci (VRE); Methicillin-Resistant Staphylococcus aureus (MRSA); Extended-spectrum β -lactamase (ESBLs) producing Gram-negative bacteria; Klebsiella pneumoniae carbapenemase (KPC) producing Gram-negatives; MultiDrug-Resistant gram negative rods (MDR GNR) MDRGN bacteria such as Enterobacter species, E.coli, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa



Thank you

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